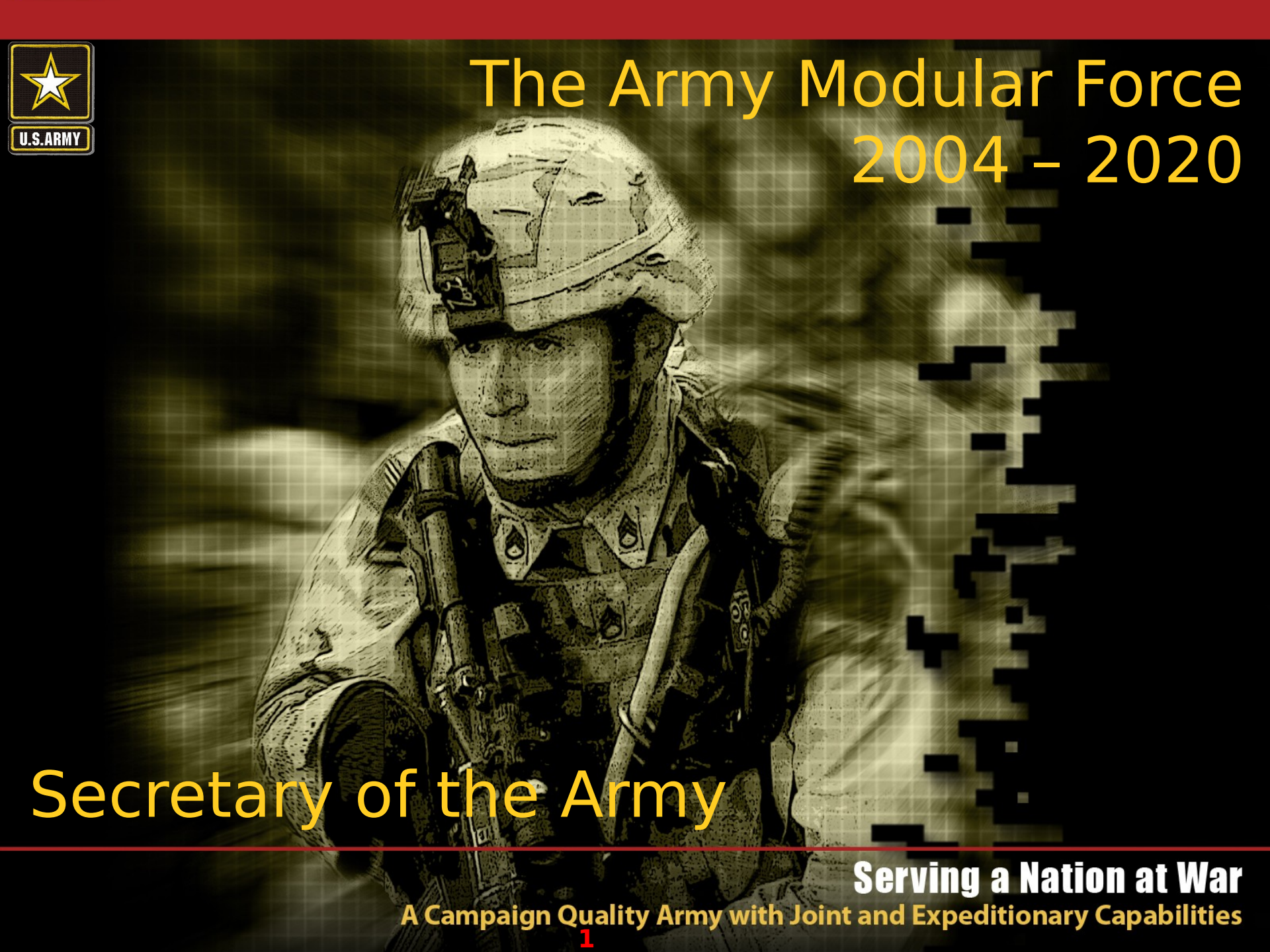
# The Army Modular Force
# 2004 – 2020



## Secretary of the Army

**Serving a Nation at War**

**A Campaign Quality Army with Joint and Expeditionary Capabilities**

# THE ARMY MODULAR FORCE

## WHAT IT IS

- **Total redesign of the operational Army…Full Spectrum Force**
  - Larger and More Powerful
  - More Flexible
  - More Rapidly Deployable
- **Division-centric to Brigade Combat Team-centric**
- **Brigade Combat Team (Unit of Action)**
  - Organized the way it fights
  - 3,500 – 4,000 Soldiers
  - Self-sufficient, standardized
  - Three types: Infantry, Armor, Stryker
- **Standardized HQs and Support Brigades**
  - Two echelons of Headquarters (Sustainment, Maneuver Enhancement, Fires, Aviation, BfSB)
  - Five types of Support Brigades

## KEY ADVANTAGES

- **HQs joint capable and organized the way it will operate**
- **Combat Power**
  - 33 to 43 BCTs in the AC; 34 RC
  - Enhanced Combat Power of the UA
- **Number of BCTs in the rotational pool**
  - 48 to 77
- **In combination with AC/RC rebalancing, the Modular Force will reduce stress on the force**:
  - Predictable rotation cycle
  - Longer dwell time at home
- **Providing an organizational framework for implementation of the Future Combat Force Strategy… Linkage to the FCS Program**

**Transformation is Ingrained in Everything we do… Today and in the Future**

**Relevant and Ready…Today and Tomorrow**

# Designing a Full Spectrum Force

Past

**Heavy Bdes**
**(Armor, Mechanized, Armored Cavalry)**

**Light Bdes**
**(Airborne, Air Assault, Light, Light Cavalry)**

## Operating Environment

- Offensive, Defensive, and Security Missions in **open** or **mixed terrain**
- Against either **regular** or **irregular** forces
- Premium on mobile protected firepower balanced with dismounted infantry
- **Stability** operations

## Operating Environment

- Offensive, Defensive, and Security Missions in or **near urban** terrain against either **regular** or **irregular** forces
- When in Forced Entry or Early Entry context, premium is on wheeled mobility and air transportability
- Premium is on infantry strength and mechanical transport
- Mobile protected firepower
- **Stability** operations

## Operating Environment

- Offensive and Defensive Missions in **close terrain** (mountains, jungle, forests) against either **regular** or **irregular** forces
- Premium is on infiltration by foot and air assault mobility
- Augmented for stability ops

Army Modular Force

**Heavy Brigade Combat Team**

**Stryker Brigade Combat Team**

**Infantry Brigade Combat Team**

**FCS Equipped Unit of Acton**

# Transforming to a Modular Force

**Before** → Modular Transformation → **After**

| | |
|---|---|
| Brigades: | 71 |
| Infantry | 29 |
| Stryker | 2 |
| Heavy | 40 |
| HQs Above Brigade | 35 |
| Fires | 44 |
| Sustainment | 72 |
| Aviation | 33 |

| | AC/RC |
|---|---|
| Brigade Combat Teams: (43/34) | 77 |
| Infantry | 41 (18/23) |
| Stryker | 7 (6/1) |
| Heavy | 29 (19/10) |
| HQs Above Brigade | 26 (18/8) |
| Fires | 12 (6/6) |
| Sustainment | 35 (16/19) |
| Aviation | 25 (11/14) |
| Maneuver Enhancement | 16 (3/13) |

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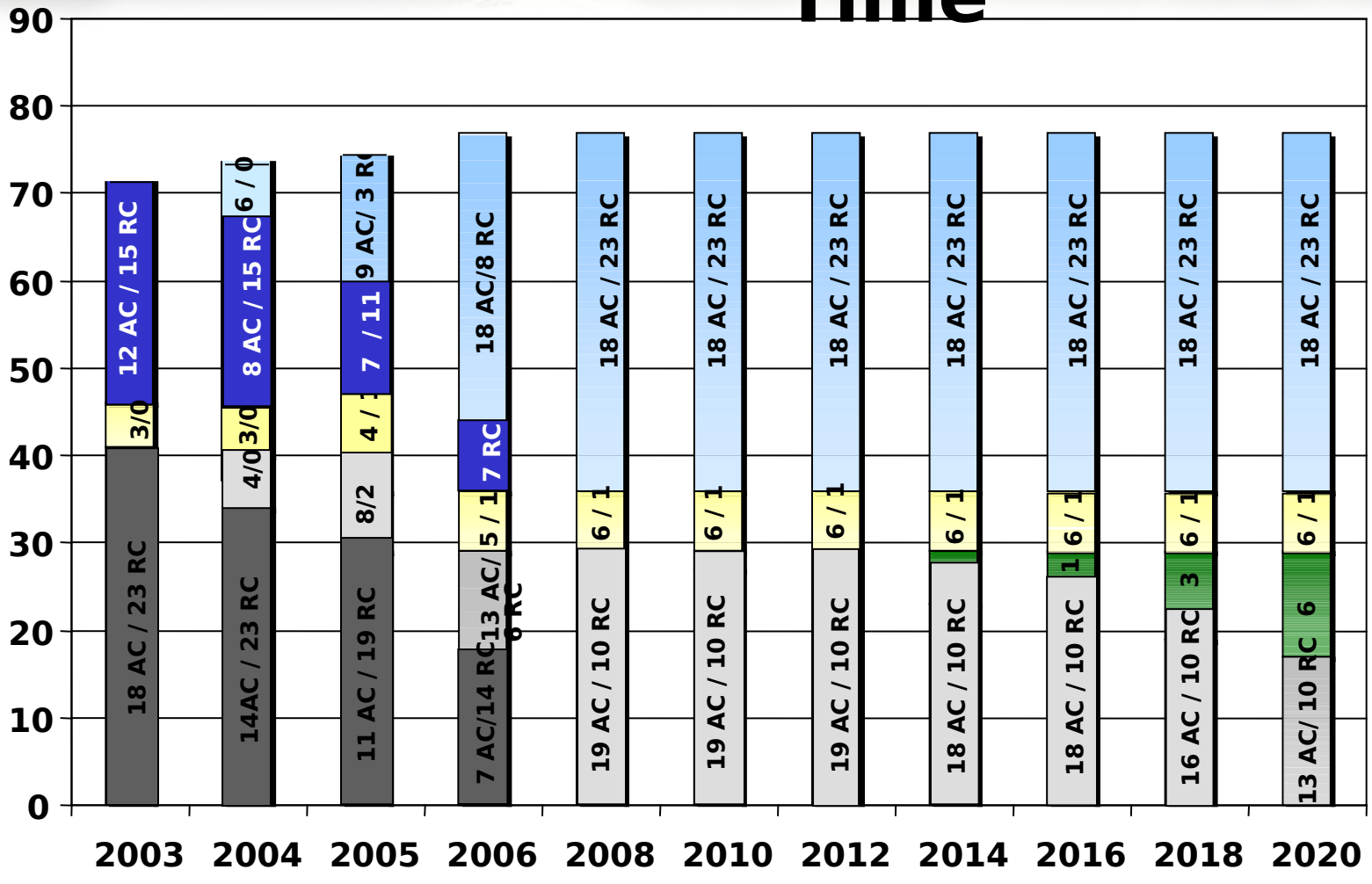
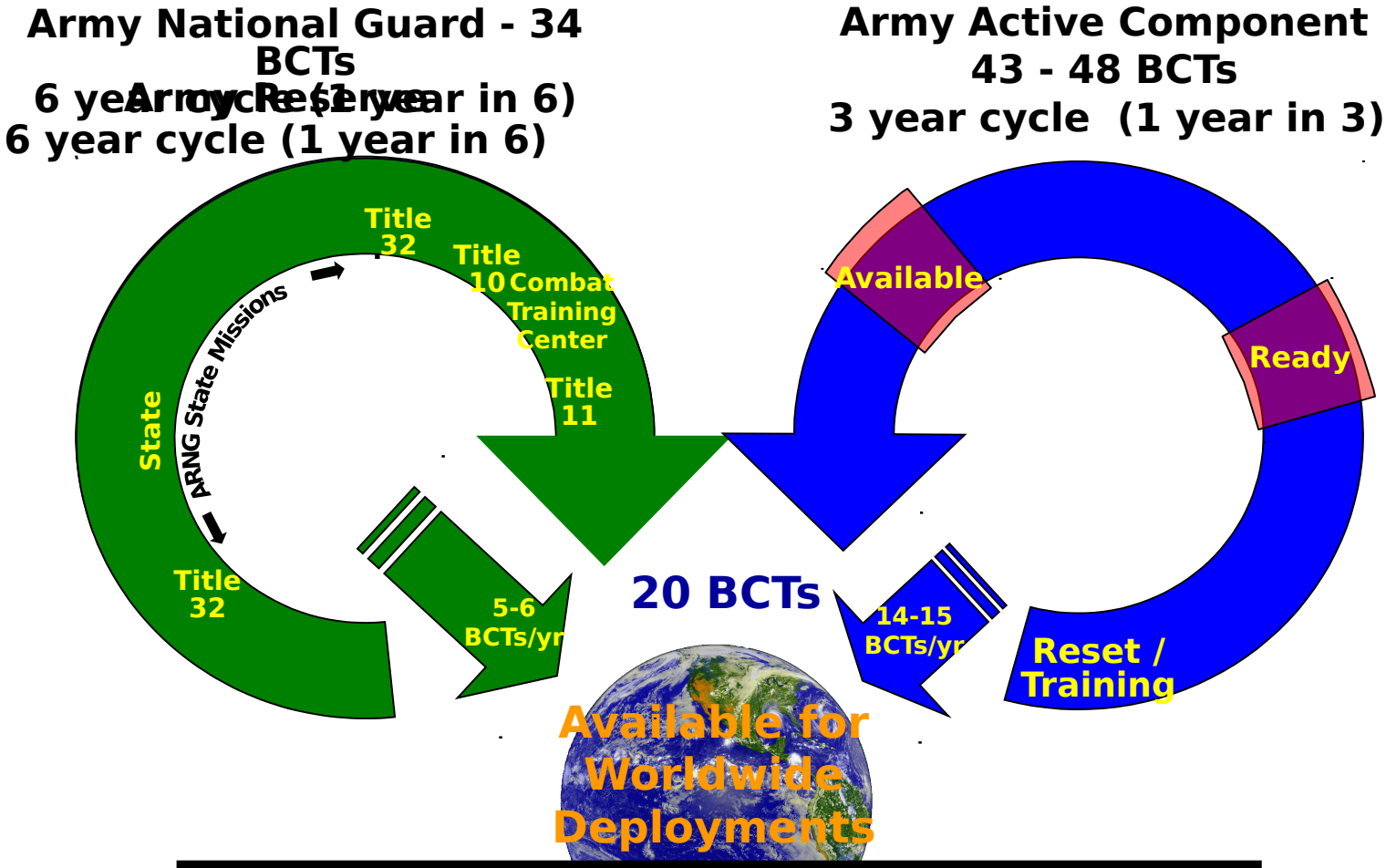
# Brigade Combat Teams Over Time




**FCS spirals begin 2010 for selected operational BCTs**

# Delivering a Sustainable Supply of Ground Capability Using the Army Force Generation Model

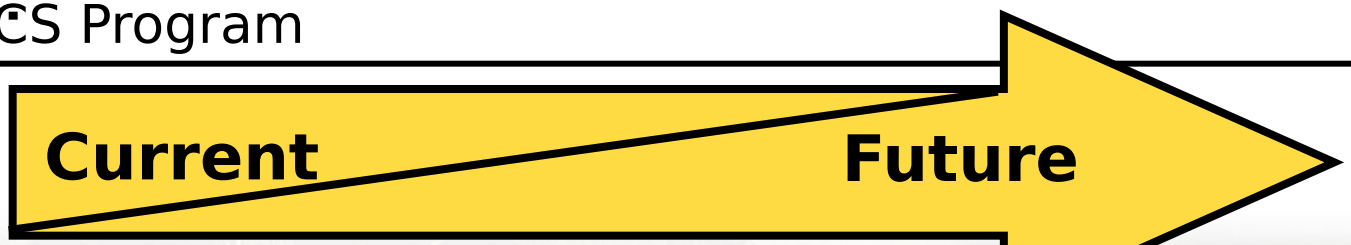



***Effectively managing readiness and the availability of forces, while reducing stress***

# Future Combat Force Strategy

**Continually transition the current Army Modular Force to the future Army Modular Force by:**

- Spin-out FCS-based technologies, such as active protection, networking, unattended sensors and munitions, and unmanned aerial and ground vehicles into the current force
- Integrating OIF/OEF lessons learned in the areas of doctrine, organization, training, and leadership as well as other advanced technologies into the future force (DARPA)
- Incorporating advanced manned combat platforms developed in the FCS Program



# A Modular Force Structure Prepared to Accept Future Combat System Technologies as they Mature

*FCS - System Development and Demonstration*

1st UA Fielding FY 14-16 *(18 of 18)*

**FY2008**

**Spin-out 1**
- Unattended Ground Sensors
- NLOS-LS
- NLOS-C
- Intelligent Munitions System
- Network

**FY2010**

**Spin-out 2 (Scheduled)**
- EO/IR UAV payload
- Network Upgrade
- Active Protection Systems (APS)

**FY2012**

**Spin-out 3 (Scheduled)**
- Unmanned Ground Veh
- Network Upgrade

**FY2014**

**Spin-out 4 (Schedul**
- Network Upgrade

Innovate

Evaluate

Experience

Improve Capability

Infantry

Stryker

Heavy

Aviation

Fires

Sustainment

RSTA

Maneuver Enhancement

EBCT

Spiral 1 Fielding

Spiral 2 Fielding

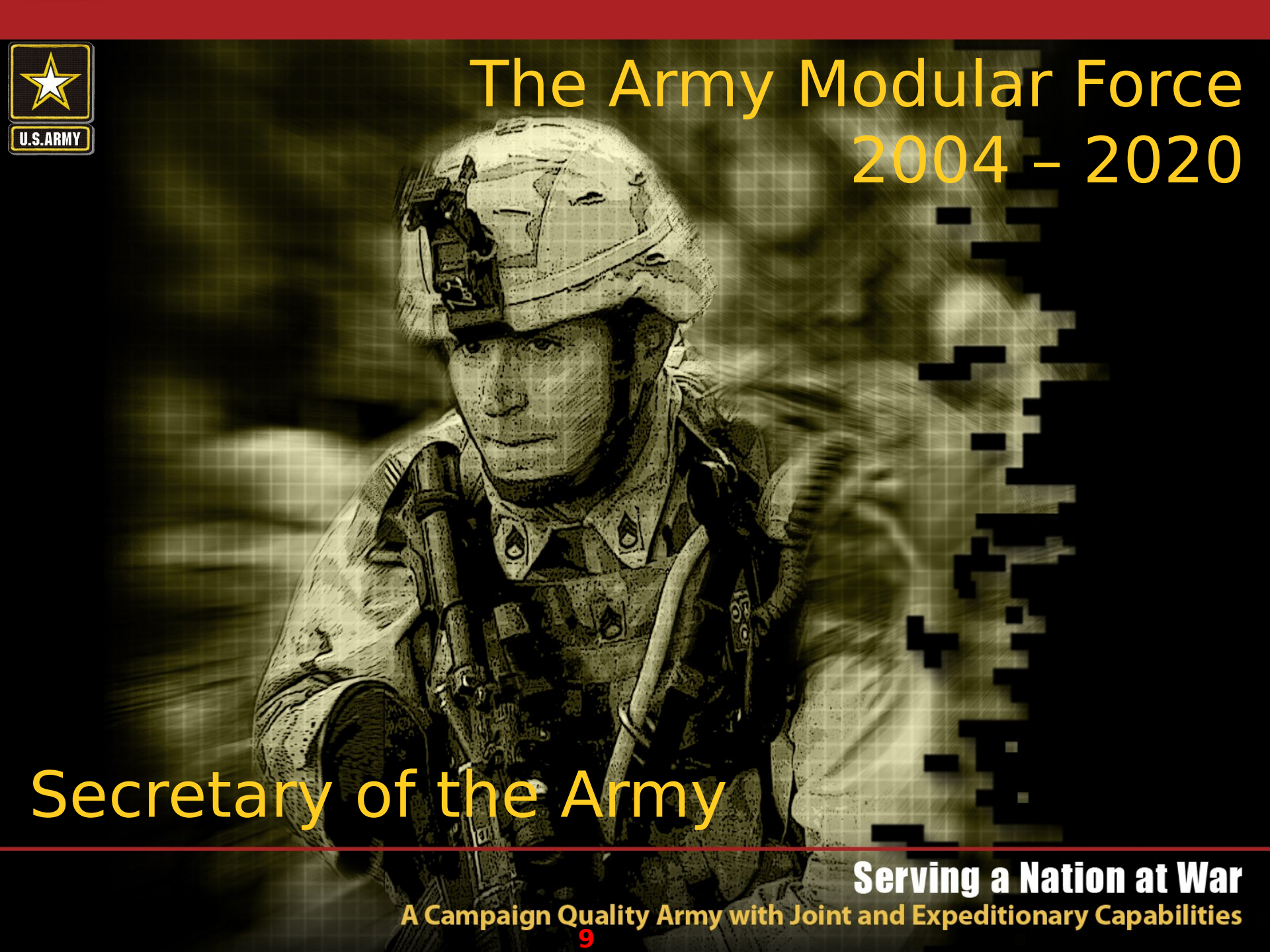
Spiral 3 Fielding

Future Combat System *Networked Capability*

*Fielding FCS Capabilities to the Modular Force*

**Transformation is Ingrained in Everything we do... Today and in the Future**

# The Army Modular Force
# 2004 – 2020



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# Back Up Slides

# Headquarters Transformation

**Curren**

**t** XXXX

**Army**

- *HHC Only*
- *Large AUGTDA*
- *Support Elements Task Organized*

| ASCC | SPACES |
|---|---|
| USARPAC | 263 |
| EIGHTH | 786 |
| USARSO | 282 |
| THIRD | 878 |
| SEVENTH | 563 |
| TOTAL | 2,772 |

**Transformed**

**UE$_Y$**

| UEy | SPACES | DELTA |
|---|---|---|
| ARPAC | 1,161 | +112) |
| ARSOUTH | 282 | 0 |
| ARCENT | 1,161 | +283 |
| USAREUR | 1,161 | +598 |
| ARNORTH | 130 | +130 |
| TOTAL | 3,895 | +1,123 |

XXX

**CORPS**

| WARFIGHT HQ | SPACES |
|---|---|
| I | 324 |
| XVIII | 286 |
| III | 293 |
| V | 325 |
| 20 DIVISIONS | 14,054 |
| TOTAL | 15,282 |

**UE$_X$**

| WARFIGHT HQ | SPACES | DELTA |
|---|---|---|
| 3 UEx (3) | 3030 | +1,802) |
| 18 UEx (2) | 18180 | +4,126 |
| TOTAL | 21210 | +5,928 |

**DIV HQ:**
**765 Spaces**
**24th ID 144 Spaces**
**7th ID 140 Spaces**

XX

**DIV**

- *HHC Only*
- *Support Elements Task Organized*

X

**BDE**

**BDE HQ:**
**86 Spaces**

| BCT | SPACES |
|---|---|
| 27 LT HQ | 2,322 |
| 40 HVY HQ | 3,440 |
| 4 SBCT HQ | 492 |
| 71 TOTAL | 6,254 |

**BCT (UA)**

| BCT | SPACES | DELTA |
|---|---|---|
| 41 IBCT HQ | 6068 | +3,746 |
| 29 HBCT HQ | 4553 | +1,113 |
| 7 SBCT HQ | 861 | +369 |
| 77 TOTAL | 11482 | +5,228 |

- ***Reduces number of HQ echelons***
- ***Provides a fully staffed expeditionary and Joint focused HQ structure***
- ***Increases capability for Regional Combatant Commander's***
- ***Imbedded Support facilitates Stand-Alone Operations***
  ***(Self contained staff - does not need plugs from subordinates)***
- ***Requires fully resourcing personnel authorizations to provide an expeditiona***

# Heavy Brigade Combat Team Design

~3.8K Soldiers

**BTB** — Brigade Troops

**Recon Squadron**

**Combined Arms**

**Fires** — Fires Battalion

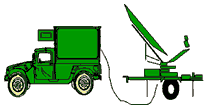
**SPT** — Support Battalion

## UA Headquarters

- Increased Staff
- C2 Enhancements
- Deputy Commander
- PSYOPS/Civil Affairs
- Aviation & Air Defense

**HHC**

- Security Platoon
- Military Police Platoon



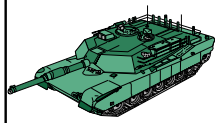
**Signal Company**

- Communications/ Network Operations Support

## Battle Command:

Networked Battle Command Enabling Systems.

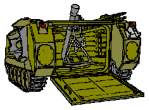
## Combat Maneuver & Recon Capabilities



58 M1A1 Tanks

4 Tank Companies
4 Mechanized Companies
3 Recon Troops
2 Scout Platoons
2 Mortar Platoons

95 Bradley Scout & Infantry Fighting



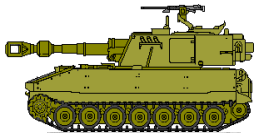
14 X 120mm Mortar Carriers

40 HMMWV w/Long- Range Advanced Scout Surveillance System

2 Sniper Sections

## Fires

Joint Fires Cell
3 x Joint Tactical Air Control Tms (CA and Armed Recon Battalions)



16 x 155mm Howitzer (2 Batteries)

## Support

Maintenance Company

Distribution Company

Medical Company

4 Forward Support Companies (provide maintenance and other support to 4 battalions)

## Intelligence & Surveillance Capabilities

Military Intel Co.

- Intelligence Integration & Analysis
- Human Intelligence Capabilities

TUAV Platoon

- Armed Recon / Fires Company UAVs

Multi-Sensor Unit

- Various sensor capabilities

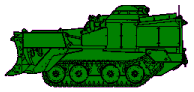
## Target Acquisition

Counterfire and Counter-Mortar Radars

Target Acquisition Platoon

## Protection

Chemical Recon Vehicles



12 Engineer Squads (2 Engr Companies)

Various Equipment

Transformation is Ingrained in Everything we do...Today and in the Future

# Infantry Brigade Combat Team Design

~3.6K Soldiers

## BTB — Brigade Troops

**UA Headquarters**
- Headquarters
- C2 Enhancements
- Deputy Commander
- Special Ops/Civil Affairs Coordinator
- Aviation & Air Defense

**HHC**
- Security Platoon
- Military Police Platoon

**Signal Company**
- Communications/ Network Operations Spt

**Engineer Company**
6 Engineer Squads
Light Equipment

**Battle Command:**
Networked Battle Command Enabling Systems.

## Recon Squadron

**Recon Capabilities**

2 Motorized Recon Troops

1 Dismounted Recon Troop

HMMWV with Long-Range Advanced Scout Surveillance System

## Infantry Battalions

**Combat Maneuver Capabilities**

6 Infantry Companies

6 Assault Platoons (Motorized)

2 Scout Platoons

2 Mortar Platoons

2 Sniper Sections

**Intelligence & Surveillance Capabilities**

Military Intel Co.
- Intelligence Integration & Analysis
- Human Intelligence Capabilities

TUAV Platoon

Multi-Sensor Unit
- Various sensor capabilities

## FIRES — Fires Battalion

**Fires**

Joint Fires Cell
3 x Joint Tactical Air Control Tms (Infantry and

16 x 105mm Howitzer (2 Batteries)

**Target Acquisition**

Counterfire and Counter-Mortar Target Acquisition Platoon

## SPT — Support Battalion

**Support**

Maintenance Company

Distribution Company

Medical Company

4 Forward Support Companies (provide maintenance and other support to battalions)

Transformation is ingrained in everything we do… Today and in the Future

# Stryker Brigade Combat Team Design

~3.9K Soldiers

HHC — Headquarters

RSTA

Maneuver Combat

Anti-Tank

Fires Battalion

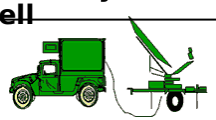
Engineer

SPT — Support Battalion

## Stryker HQs

- Increased Staff
- C2 Enhancements
- Deputy Commander
- PSYOPS/Civil Affairs
- Aviation & Air Defense

**HHC**
- Military Police C2 Cell



**Signal Company**
- Communications/ Network Operations

**Spt**

**Battle Command:**
Networked Battle Command Enabling Systems.

## Recon Capabilities

3 Stryker RSTA Troops

Surveillance Troop (UAV and Sensors)

3 Chemical Recon Vehicles

53 Recon & Fires vehicles with Long Range Advanced Scout Surveillance System

Mortar Platoon
6 X 120mm

## Combat Maneuver Capabilities

9 ICV Companies
9 MGS Platoons
9 Mortar

127 X Infantry Carrier Vehicles

30 X 120mm Mortar Carriers

27 X Mobile Gun Systems

3 Sniper Section

## Anti-Tank

9 Stryker Anti-Tank Guided Missile vehicles

## Fires

Joint Fires Cell
5 x Joint Tactical Air Control Parties (Infantry, a[illegible]e)

18 x 155mm Howitzer (3 Batteries)

## Engineer

9 Engineer Squads
3 Mobility Squads w/ Various Equipment

## Intelligence & Surveillance Capabilities

**Military Intel Co.**
- Intelligence Integration & Analysis
- Human Intelligence Capabilities

**UAV Platoon**

**RSTA Battalion Multi-Sensor Unit**
- Various sensor capabilities

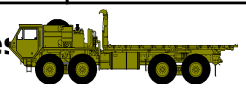
## Target Acquisition

Counterfire and Counter-Mortar Radars

Target Acquisition Platoon

## Support

Medical Company



Distribution Company

Maintenance Company

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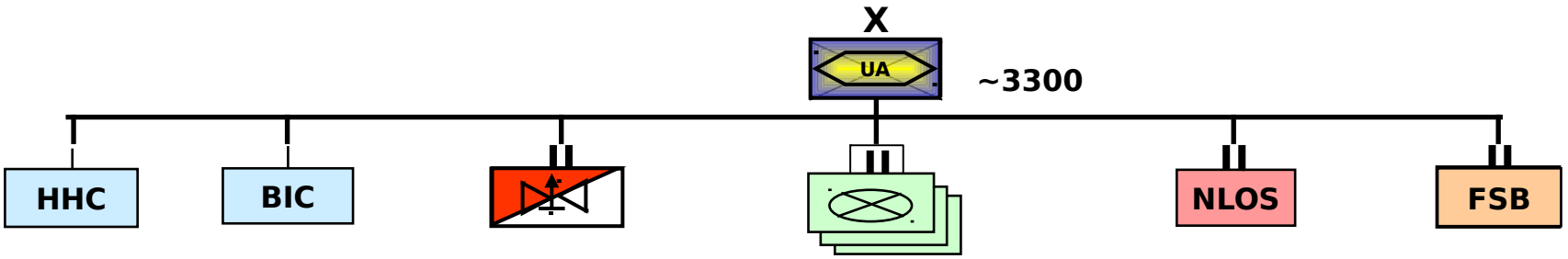
# FCS Unit of Action




## UA Headquarters

**C2V**

4 Integral WMI Work Stations maximizing C4ISR capabilities, with Networked Lethality and APS for survivability

Battle Command: Networked Battle Command Enabling System allows the FCS UA to operate as a cohesive system of systems where the whole of its capabilities is greater than the sum of its parts. The network enables soldiers to perceive, comprehend, shape and dominate the future battlefield.

## Recon Capabilities

**UAV**

Class I | Class II | Class III | Class IV

**R&S V**

Advanced sensor suite includes mast-mounted, long-range electro-optic infrared sensor, an emitter mapping sensor for radio frequency (RF) intercept and direction finding, remote chemical detection, and a multifunction RF.

**UGVs (SUGV/ARV RSTA)**

SUGV- manportable UGV capable of operating in urban terrain, tunnels and caves.

**UGS (Tactical and Urb**

Detects and identifies targets using visual, seismic, magnetic and acoustic signatures

## Combat Maneuver Capabilities

**ICV**

XM 307 – 50 Cal

Consists of four externally identical platform versions: Company Cdr; Platoon Ldr; Rifle Squad; and Weapons Squad. Networked Lethality & APS for survivability

**MCS**

120 mm Cannon

CCAS

Abrams direct fire lethality, ammo compatibility + BLOS to engage point targets to 8 km, and employs Networked Fires and APS for enhanced survivability

**UGVs (ARV Aslt/Ligh**

ARV Assault will support the dismounted infantry in the assault with direct fire and AT weapons; and occupy key terrain and provide over-watching fires

**MULE**

2.5 ton UGV variant detects, marks and neutralizes mines

## Fires

**NLOS-M**

120mm Turreted Mortar Responds within 30 secs emplaced and 60 secs moving; 8 rds/m sustained and employs Precision Guided Mortar Munitions

**NLOS-C**

Quick halt firing. Networked, extended-range targeting and multiple round-simultaneous impact (MRSI) of point and area targets with fully automated handling, loading, and firing.

**NLOS-LS**

Consists of container launch unit (CLU); 15 missiles in any combination; vertically launches missiles from sealed canisters carried by ground vehicle or placed on the ground.

**IMS**

Lethal and non-lethal unattended munitions integrated with sensors and the network to shape offensive battlespace and provide protection

## Support

**FMRV**

XM 307 –25mm

Battle Damage Assessment and Repair (BDAR), and recovery. Includes exothermic cutting tool and welding tool. Holds 3 crew and 3 recovered crew.

**MV-E & ME-T**

Onboard Oxygen Generators to provide the capability to treat on the move

Physiological Monitoring

MC4, TMIP, Blood Refrigerator (Treatment)

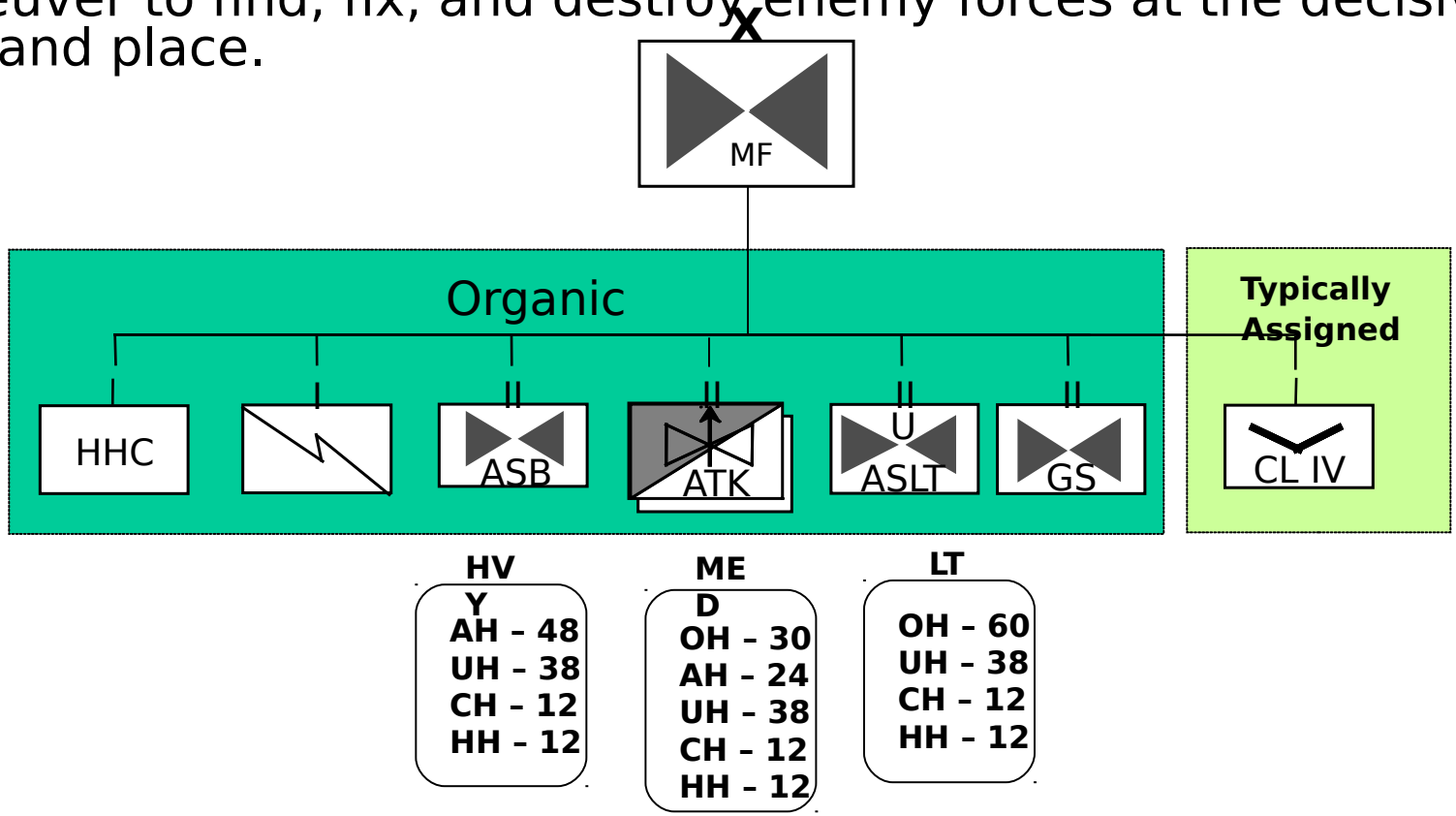
Medical Shelter (Treatment)

**MULE (Transport and Retrans)**

Platform integrated C4ISR, on board sensor suite and platform diagnostics. Cannot be duplicated on existing platforms. Networked Logistics Systems integrated through the Family-of-Systems to achieve reduced logistics footprint, enhanced deployability, increased operational availability, and reduce total ownership costs. Embedded Live-Virtual-Constructive (L-V-C) Training integrated into platform. FCS has no Engineer or Anti-Tank variants. Anti-tank capability is MCS, Armed Robotic Vehicles and NLOS-LS. Countermine Multifunctional Utility/Logistics and Equipment (MULE) Vehicle will detect, mark and neutralize anti-tank mines

# Aviation Brigade

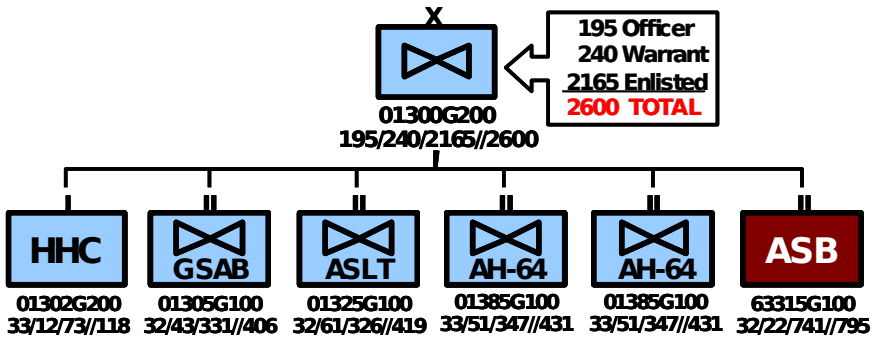
Mission: Plan, prepare, execute and assess aviation and combined arms operations to support UEx and maneuver brigade scheme of maneuver to find, fix, and destroy enemy forces at the decisive time and place.



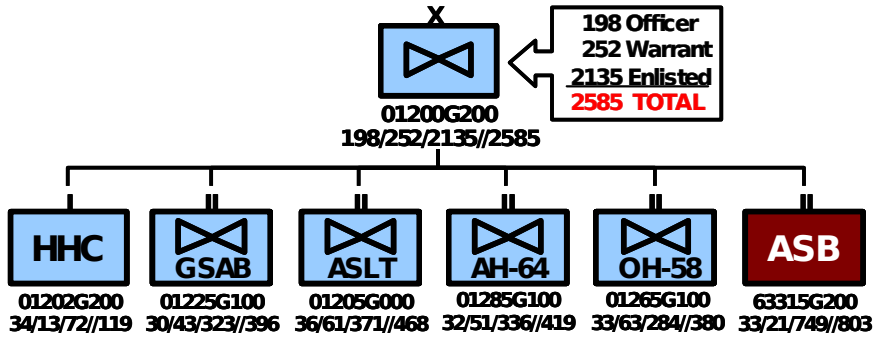

Standard Bde Design – However, aircraft vary by type of bde

# Aviation Brigades

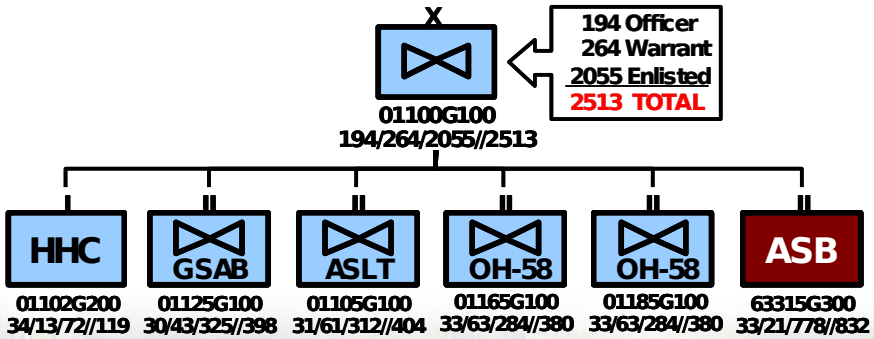
## Heavy MFAB




## Medium MFAB




## Light MFAB

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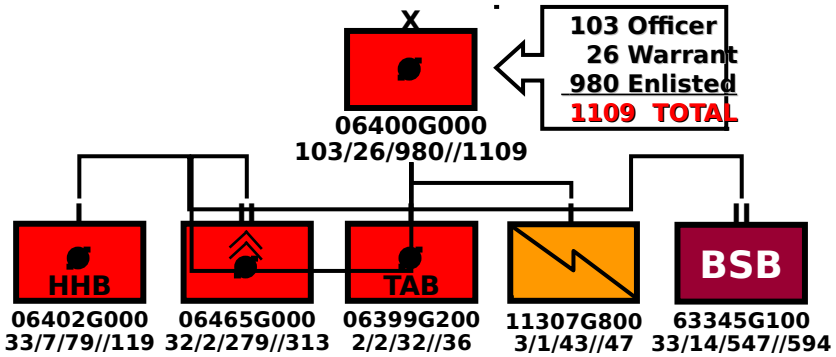
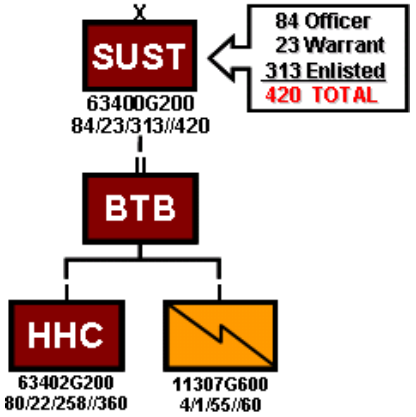
# Support Brigades

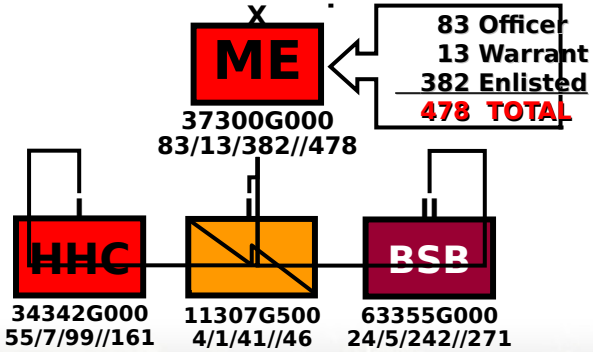
## Fires BDE



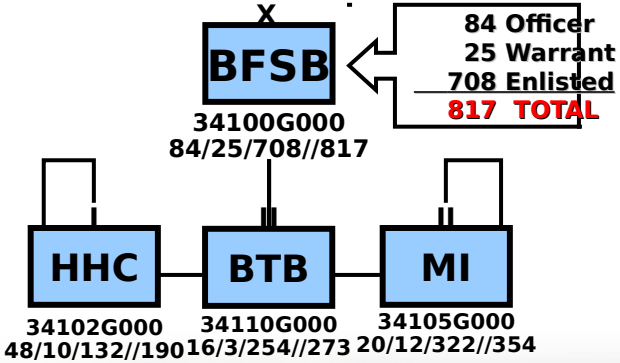

## Sustainment BDE




## Maneuver Enhancement BDE




## Battlefield Surveillance BDE

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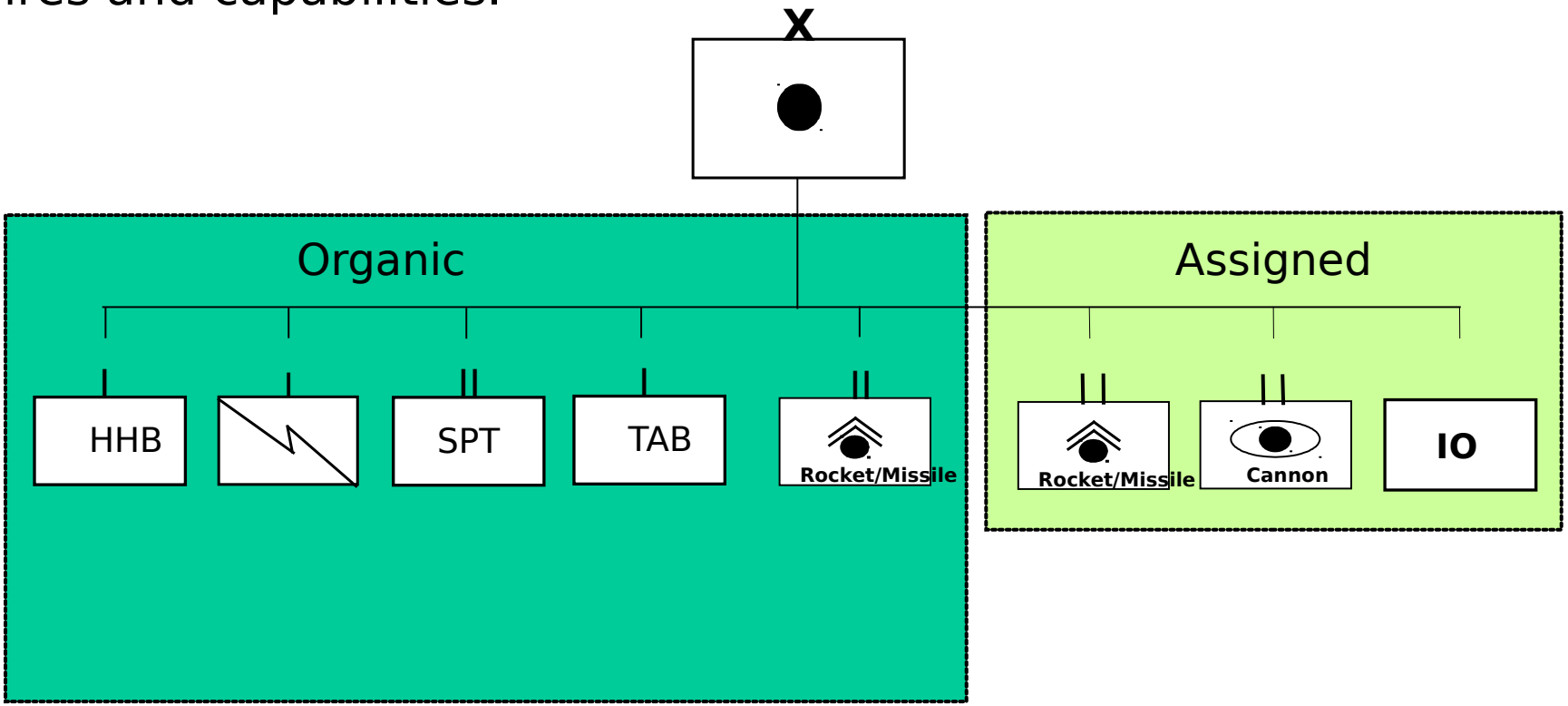
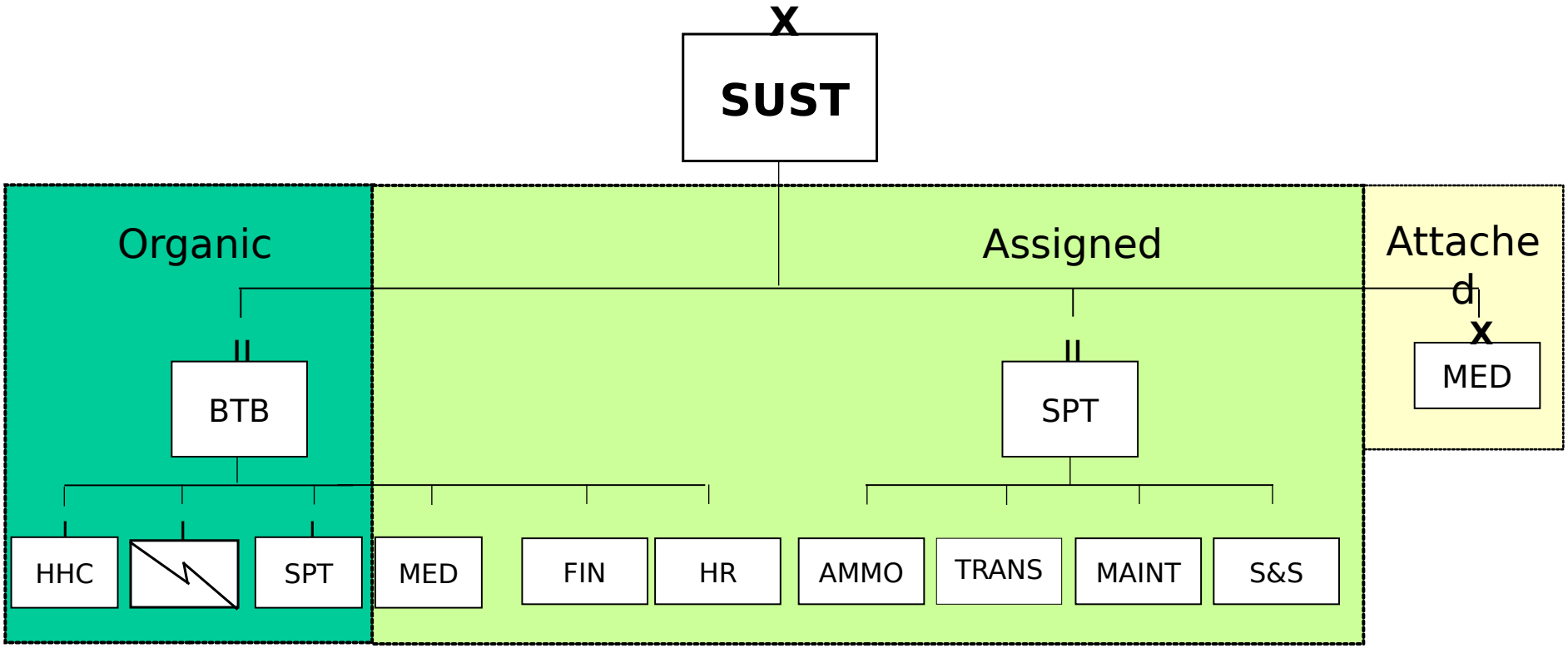
# Fires Brigade

Mission: Plan, prepare, execute and assess combined arms operations to provide close support and precision strike for JFC, UE, maneuver UAs and support UAs employing Joint and organic fires and capabilities.



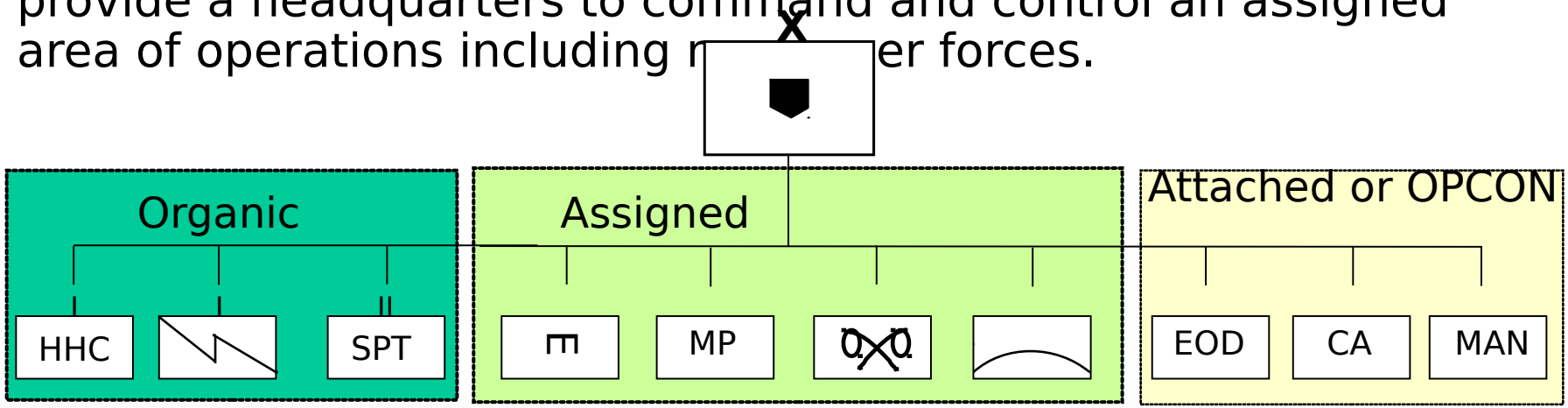
# Sustainment Brigade

Mission: Plan, prepare, execute and assess CSS operations within assigned AO



# Maneuver Enhancement Brigade

Mission: The Maneuver Enhancement Brigade enables and enhances the full dimensional protection and freedom of maneuver of a supported Army, joint or multinational headquarters by shaping, leveraging or mitigating the effects of the operational environment at the tactical and operational levels. It augments maneuver and support brigades with functional assets to optimize the tailored capabilities of those organizations and enhance force application, protection, and focused logistics across multiple areas of operation and can provide a headquarters to command and control an assigned area of operations including m er forces.



# Battlefield Surveillance Brigade (BFSB

Mission: Conducts Reconnaissance, Surveillance, and Intelligence operations to enable the UEx, JTF, or Joint Force Commander to focus joint combat power and effects with precision to simultaneously support current and future operations throughout the Area of Operation.